

# MACIEJ KOS

Website: [mkos.pl](http://mkos.pl) / E-Mail: [mkos@ccs.neu.edu](mailto:mkos@ccs.neu.edu)

## EDUCATION

<b>Northeastern University</b> , Boston, MA Ph.D. Candidate in Computer Science, Personal Health Informatics (GPA: 4.0)	05/2015 – present
<b>University of Michigan</b> , Ann Arbor, MI Master of Arts in Information Science (incentives-centered design and behavioral research focus)	12/2012
<b>Barcelona Graduate School of Economics</b> , Barcelona, Spain Master of Science in Economics of Science and Innovation	06/2009
<b>University of Gdansk</b> , Sopot, Poland Bachelor and Master of Arts in Economics and E-business	06/2005

## RELEVANT EXPERIENCE

<b>Research Assistant</b> at Khoury College of Computer Sciences, Northeastern University, Boston, MA	09/2015 – present
<b>UX Research Intern</b> (quantitative) at Google, Material Design, San Francisco, CA	05/2019 – 09/2019
<b>Research Intern (Clinical Data Analytics)</b> at Philips Healthcare Research, Cambridge, MA	05/2018 – 09/2018
<b>Investigator / Research Group Manager</b> , Research Grant: Genetic health risk information avoidance, Sopot, Poland & Boston, MA	07/2013 – 05/2018
<b>User Experience and Research Consultant</b> at Agile Axons (self- employed), Gdynia, Poland and Rome, Italy	01/2013 – 08/2015
<b>Graduate Research Assistant</b> at the School of Information, University of Michigan, Ann Arbor, MI	08/2009 – 01/2012

## SELECTED AWARDS

- Association for Computing Machinery HPC/Intel Corporation Computational and Data Sciences Fellowship, 2017 – 2020
- Grace Hopper Conference, 2019 – Google Travel Award
- Complex Physical, Biological & Social Systems Winter School at New England Complex Systems Institute, MIT, Cambridge, MA, 2019 - tuition waiver
- Disability:IN, 2017 - NextGen Leader Award
- 4th Annual Political Networks Conference and Workshops at the University of Michigan, 2011 - fellowship
- Barcelona Graduate School of Economics, 2008/2009 - merit-based full tuition waiver (12 000 EUR)
- Erasmus Life-long Learning Grant, 2008 (1 900 EUR)
- University of Gdansk, 2007 (2000 USD) - grant to assess usability of selected academic websites
- Erasmus Socrates Mobility Grant, 2005 (1 850 EUR)

## MENTORSHIP

- Northeastern University (2019):
  - guided three graduate students through completing their data science capstone project
  - mentored a graduate student in health data analytics
- University of Gdansk (2006 – 2009):
  - mentored two teams of graduate students participating in Google Online Marketing Challenge; one of the teams won the first place in Poland
  - advised 20 undergraduate students on their thesis projects

## SELECTED TEACHING EXPERIENCE

- Northeastern University:
  - Transforming Healthcare with Mobile Health (HONR 3310): honors course; Invited lecture
  - Health Data Analytics (HDA6400): graduate course; Teaching assistant
- University of Gdansk:
  - Web usability: undergraduate and graduate course; Instructor
  - Internet Marketing and online communities: graduate course; Instructor

## ACADEMIC SERVICE

- Ad hoc reviewer for IEEE Engineering in Medicine and Biology Society and American Medical Informatics Association
- Northeastern Personal Health Informatics Faculty Committee, 2018/2019 – elected student representative
- Personal Health Informatics seminar, 2016/2018 – organizer (with C. Gordon and S. Ólafsson)
- Northeastern University Ph.D. task force, 2016 – representative of the Personal Health Informatics program
- Interdisciplinary Committee on Organizational Studies 9th Biannual Dissertation Poster Session at University of Michigan Ross Business School, 2011 – coordination team member
- Rackham's International Connect, 2010/2011 – mentor
- Poland Foresight 2020 national research program – external expert
- Barcelona Graduate School of Economics, 2008/2009 - student representative
- E-business Science Association, 2006-2008 - chair at the University of Gdansk
- Baltic Science Festival, 2007/2008 – departmental coordination team member
- Association of Internet Researches, 2007 – graduate students research team member

## PROFESSIONAL ASSOCIATIONS

- Anita Borg Institute for Women in Technology
- Association for Computing Machinery
- IEEE
- American Medical Informatics Association
- Society for Affective Science
- Society for Judgment and Decision Making
- Disability:IN

## SELECTED PAPERS, PRESENTATIONS, AND POSTERS

- **Kos M.**, Pavel M., Jimison H. (2019). *Dual-task tests: differences and changes in motor function in persons with varying levels of cognitive impairment – a systematic review* (paper submitted)
- **Kos M.**, Pavel M., Jimison H. (2019). *How to Validate Heart Rate Monitoring Wearables for Just-in-Time Adaptive Health Interventions? Development of Comparison Testing Guidelines*. Accepted for poster presentation at the Annual American Medical Informatics Association Symposium, Washington, DC
- Khaghani-Far, I., Li, X., **Kos, M.**, Gordon, C. M., Williams, H., Pavel, M., & Jimison, H. B. (2019). *NUCoach: A Customizable Coaching Platform for Designing Rehabilitation Mobile Apps*. Archives of Physical Medicine and Rehabilitation, 100(7), e2.
- **Kos M.**, Yew J. (2019) *Computational methods for understanding cognitive density preferences; foundations for adaptive user experiences*, Google Ph.D. Intern Research Conference, Mountain View, CA
- **Kos M.**, Ponnada A., Pavel M., Intille S. (2018). *Evidence That Microinteraction Ecological Momentary Assessment (μEMA) is a Non-Reactive In-Situ Affect Assessment Method*. Poster presentation at the 2019 Society for Affective Science Annual Conference in Boston, MA
- Rampersad S., Orhan K., **Kos M.**, Mansfield K., Marghi Y. M., Sheffield J., Dillard M., Erdogmus D., Pascual-Leone A., Yeung N., Mathan S., Cohen K. R., Pavel M. (2018). *Effects of EEG-Based Closed-Loop Transcranial Alternating Current Stimulation on Theta Power during a Cognitive Task*. Poster presentation at the 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Hawaii
- **Kos M.**, Gordon C., Li X., Khaghani-Far I., Pavel M., Jimison H. (2017). *The Accuracy of Monitoring Stress from Wearable Devices*. Poster presentation at the Annual American Medical Informatics Association Symposium, Washington, DC
- **Kos M.**, Li X., Khaghani-Far I., Gordon C., Pavel M., Jimison H. (2017). *Can accelerometry data improve estimates of heart rate variability from wrist PPG sensors?* Paper presentation at the 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, South Korea
- McKanna J., Plessow F., Dillard M., Kimball G., Norton-Ford Almquist J., **Kos M.**, Yeung N., Mathan S., Pavel M. (2017). *Training Executive Functions through Rapidly-Changing Task Contexts and an Individualized Difficulty Progression* (paper under review)
- McKanna J., **Kos M.**, Plessow F., Dillard M., Almquist J., Kimball G., Myers E., Orhan U., Rampersad S., Marghi Y., Cornhill D., Brem A., Mansfield K., Yeung N., Thompson T., Santarnecchi E., Erdogmus E., Pascual-Leone A., Kadosh C. R., Mathan S., Pavel M. (2017). *Components of cognition: identifying contributors to learning speed in a game training intervention*. Poster presentation at xTech, San Francisco
- **Kos M.**, McKanna J., Pavel M., Dillard M., Almquist J., Kimball G., Brem A., Orhan U., Rampersad S., Cornhill D., Yeung N., Erdogmus D., Pascual-Leone A., Kadosh R., Mathan S. (2017). *The impact of stimulus features on learning and accuracy in an adaptive category learning task designed to train fluid*

*intelligence*, Poster presentation at the Association for Psychological Science annual convention, Boston, MA

- Blajer-Golebiewska, A. and **Kos, M.** (2016). *Investors are more sensitive to information about financial rather than ethical reputation of a company: evidence from an experimental study*. Economics & Sociology, 9(1), p.11.
- **Kos M.**, Blajer-Golebiewska A., Wach D., Pavel M., Gonzalez R. (2016). *Decision-making under threat: what determines our engagement in preventive behaviors?* Poster presentation at the Society for Judgment and Decision-Making annual conference, Boston, MA
- Blajer-Golebiewska A., Wach D., **Kos M.** (2016). *Information avoidance in financial decision making*. Proceedings of the 23rd International Academic Conference, Venice
- Blajer-Golebiewska A., Wach D., **Kos M.** (2016). *Risk information avoidance: time inconsistency in decision-making*. Presentation at Economic valuations: privacy, environment, security, and health, Sopot
- **Kos M.**, Blajer A., Wach D. (2015). *When do we avoid health-risk information?* Poster presentation at the Society for Judgment and Decision-Making annual conference, Chicago, IL
- **Kos M.**, Blajer A., Wach D. (2015). *Identifying predictors of preventive behaviors using a financially incentivized experiment – a pilot study*. Poster presentation at the 37th Annual North American Meeting of Society for Medical Decision Making, St. Louis, MO
- Blajer A., Wach D., **Kos M.** (2015). *When inducing affective decision-making statistical significance may be not enough*, Oral presentation at the 10th Nordic Conference on Behavioral and Experimental Economics, Tampere
- **Kos M.**, Blajer A., Wach D. (2015). *When do individuals avoid potentially life-saving risk information?* Poster presentation at the Subjective Probability, Utility, Decision Making conference, Budapest
- **Kos M.** (2013). *Structural and behavioral determinants of play in a repeated network coordination game – preliminary report*. Contemporary Economy Economic Scientific Journal, 3(4), 43-69